

Docket No. 25.1990US0/phh



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takayuki HAMADA, et al.

SERIAL NO: 10/826,374

GAU: 1614

FILED: April 19, 2004

EXAMINER:

FOR: PRODUCTION METHOD FOR OPTICALLY ACTIVE N-ARYL-BETA-AMINO ACID COMPOUNDS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references cited in the attached European Search Report listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.

- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette. Cited issued patents, if any, are listed on the attached PTO form 1449.

- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Norman F. Oblon

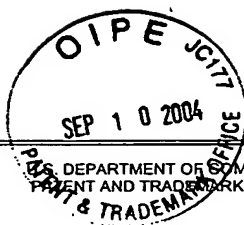
  
\_\_\_\_\_  
Vincent K. Shier, Ph.D.

Registration No. 50,552

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

251990US0

SERIAL NO.

10/826,374

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Takayuki HAMADA, et al.

FILING DATE

April 19, 2004

GROUP

1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					
	AL					
	AM					
	AN					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AO	F. EFFENBERGER, et al., Liebigs Annalen der Chemie, no. 2, XP-000946460, pages 314-333, "ENANTIOSELEKTIVE SYNTHESSE N-SUBSTITUIERTER $\alpha$ -AMINOCARBONSÄUREN AUS $\alpha$ -HYDROXYCARBONSÄUREN", 1986 (with English Abstract)
	AP	D. SEEBACH, et al., Tetrahedron Letters, vol. 28, no. 27, XP-002023609, pages 3103-3106, " $\alpha$ -ALKYLATION OF $\beta$ -AMINOBUTANOATES WITH /K-1.2-INDUCTION", 1987
	AQ	S. Y. DIKE, et al., SYNLETT, vol. 6, XP-002290034, pages 443-444, "A NEW CHEMOENZYMATIC ENANTIOSELECTIVE SYNTHESIS OF OPTICALLY ACTIVE BENZOTHIOPYRAN AND BENZOTHIAZEPIN RING SYSTEM", June 1991
	AR	J.-I. SAKAKI, et al., Chem. Pharm. Bull., vol. 37, no. 11, XP-002290035, pages 2952-2960, "SYNTHESIS OF 1, 3-DIOXIN-4-ONES AND THEIR USE IN SYNTHESIS. XVIII. SYNTHESIS OF AZETIDIN-2-ONES FROM 1,3-DIOXIN-4-ONES VIA 3-HYDROXYCARBOXAMIDES", 1989
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	AT	H. URATA, et al., Tetrahedron Letters, vol. 32, no. 26, XP-002290037, pages 3091-3094, "CARBONYLATION OF ALKYL SULFONATES CATALYZED BY COBALT COMPLEXES", 1991
	AU	D. MA, et al., Organic Letters, vol. 3, no. 16, XP-002290038, pages 2583-2586, "CUL-CATALYZED COUPLING REACTION OF $\beta$ -AMINO ACIDS OR ESTERS WITH ARYL HALIDES AT TEMPERATURE LOWER THAN THAT EMPLOYED IN THE NORMAL ULLMANN REACTION. FACILE SYNTHESIS OF SB-214857", August 9, 2001
	AV	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.